

AMENDMENTS TO THE CLAIMS:

Please CANCEL Claims 18 and 20 without prejudice to or disclaimer of the subject matter recited therein.

Please AMEND Claims 9, 16, 19, 21, and 22 as follows.

Claims 1 through 8. (Cancelled)

9. (Currently Amended) The apparatus according to Claim 16, wherein said cooling ~~unit~~ pipe is disposed near an outer periphery of said moving unit.

10. (Previously Presented) The apparatus according to Claim 16, further comprising a laser interferometer for measuring a position of said moving unit.

Claims 11 through 15. (Cancelled)

16. (Currently Amended) A stage apparatus comprising:

a base plate;

a moving unit movable along a surface of said base plate;

a linear motor which drives said moving unit and includes a coil unit in said moving unit;

a gas bearing which supports said moving unit on the base plate; and

a cooling unit which includes a cooling pipe ~~cools said coil unit and is~~ provided in said

moving unit through which a coolant flows to cool said coil unit,

wherein said ~~cooling unit~~ cooling pipe provides coolant flow that cools a gas used by said gas bearing.

wherein said gas bearing has a supply pipe through which the gas flows, wherein at least a portion of said supply pipe is disposed adjacent to or is surrounded by said cooling pipe.

17. (Previously Presented) The apparatus according to Claim 16, wherein said cooling unit is disposed between said coil unit and a substrate mounted on said moving unit.

18. (Cancelled)

19. (Currently Amended) The apparatus according to Claim 16 ~~18~~, wherein ~~said cooling unit uses a coolant, and~~ a direction in which the coolant flows in said cooling pipe is opposite to that in which the gas flows through said supply pipe.

20. (Cancelled)

21. (Currently Amended) The apparatus according to Claim 16, wherein said moving unit comprises a fine-motion actuator which moves a substrate mounted on said moving unit, and said cooling ~~unit~~ pipe is disposed between said coil unit and said fine-motion actuator.

22. (Currently Amended) A stage apparatus comprising:

- a base plate;
- a first moving unit movable along a surface of said base plate;
- a linear motor which drives said first moving unit and includes a coil unit in said first moving unit;
- a second moving unit which moves with respect to said first moving unit; and
- a cooling unit including a cooling pipe disposed between said first and second moving units, wherein a coolant flow through said cooling pipe ~~to absorb~~ absorbs a heat transmission from said coil unit to said ~~to~~ second moving unit.

23. (Previously Presented) A stage apparatus according to Claim 22, wherein said second moving unit moves within a range smaller than that of said first moving unit.

24. (Previously Presented) A stage apparatus according to Claim 16, wherein said linear motor is a surface motor.

25. (Previously Presented) A stage apparatus according to Claim 22, wherein said linear motor is a surface motor.